



Safety Data Sheet

Defender Ultra Shield

Compiled according to GB/T 16483, GB/T 17519
Issue date: 7/1/2022 Revision date: 4/22/2025 Version: 5.0

SECTION 1 Chemical product and company identification

Chemical Chinese name	:	
Chemical English name	:	Defender Ultra Shield
Product code	:	41-0300
Name of company	:	Engineered Custom Coatings, LLC
Address	:	U.S.A. Pewaukee, WI 1002 Hickory Street
Zip code	:	53072
Fax	:	(262) 691-3892
Tel.	:	(262) 691-1930
Emergency number	:	24 Hour Emergency Assistance: InfoTrac 1-800-535-5053 (US & Canada) 1-352-323-3500 (International)
Recommended use of the chemical	:	No additional information available
Restricted use of the chemical	:	No additional information available

SECTION 2 Hazards identification

Emergency overview

Highly flammable liquid and vapour.

GHS hazard classification

Physical hazards	:	Flammable liquids, Category 2
Health hazards	:	Germ cell mutagenicity, Category 1B Carcinogenicity, Category 1B Aspiration hazard, Category 1

Other hazards not mentioned above are Not applicable or No data is available.

Label elements

Hazard pictograms (GHS CN)



Signal word (GHS CN)

: Danger.

Hazard statements (GHS CN)

: H225 - Highly flammable liquid and vapour
H304 - May be fatal if swallowed and enters airways
H340 - May cause genetic defects
H350 - May cause cancer.

Precautionary statements (GHS CN)

Prevention measures

: P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233 - Keep container tightly closed.

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Incident response	: P240 - Ground/bond container and receiving equipment. P241 - Use explosion-proof electrical/ventilating/lighting equipment. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. P308+P313 - IF exposed or concerned: Get medical advice/attention. P331 - Do NOT induce vomiting. P370+P378 - In case of fire: Use media other than water to extinguish.
Safe storage	: P403+P235 - Store in a well-ventilated place. Keep cool. P405 - Store locked up.
Disposal	: P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Physical and chemical hazards

Highly flammable liquid and vapour

Health hazards

May be fatal if swallowed and enters airways

May cause genetic defects

May cause cancer

Symptoms/effects after eye contact : None under normal conditions

Symptoms/effects after ingestion : Risk of lung oedema

Symptoms/effects after inhalation : Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard

Symptoms/effects after skin contact : None under normal conditions

Environmental hazards

No additional information available

Other hazards

No additional information available

SECTION 3 Composition/information on ingredients

Product form : Mixture.

Ingredient(s)	Concentration or concentration ranges (w/w %)	CAS No.
Solvent solution	80 - 99	Trade secret
Silicone resin	1 - 20	Trade secret

SECTION 4 First-aid measures

Description of necessary first-aid measures

First-aid measures general : Call a physician immediately

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- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
- First-aid measures after skin contact : Rinse skin with water/shower.
Take off immediately all contaminated clothing.
- First-aid measures after eye contact : Rinse eyes with water as a precaution
- First-aid measures after ingestion : Do not induce vomiting.
Call a physician immediately

Most important symptoms/effects

- Symptoms/effects after eye contact : None under normal conditions
- Symptoms/effects after ingestion : Risk of lung oedema
- Symptoms/effects after inhalation : Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard
- Symptoms/effects after skin contact : None under normal conditions

Advices for first aid responders

No additional information available

Notes for the doctor

- Other medical advice or treatment : Treat symptomatically

SECTION 5 Fire-fighting measures

Extinguishing media

- Suitable extinguishing media : Water spray
Dry powder
Foam
Carbon dioxide
- Unsuitable extinguishing media : Do not use a heavy water stream

Specific hazards

- Fire hazard : Highly flammable liquid and vapour.
- Hazardous decomposition products in case of fire : Toxic fumes may be released
- Explosion hazard : No direct explosion hazard

Advice for firefighters and protective measures

- Firefighting instructions : Fight fire from safe distance and protected location
Do not enter fire area without proper protective equipment, including respiratory protection
- Protection during firefighting : Do not attempt to take action without suitable protective equipment
Self-contained breathing apparatus
Complete protective clothing

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SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

General measures : Stop leak if safe to do so.
Notify authorities if product enters sewers or public waters
Absorb spillage to prevent material damage.

Personal Precautions, Protective
Equipment and Emergency Procedures : No additional information available

For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment

Emergency procedures : No open flames, no sparks, and no smoking
Only qualified personnel equipped with suitable protective equipment may
intervene

For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment
For further information refer to section 8: "Exposure controls/personal
protection"

Emergency procedures : Evacuate unnecessary personnel
Stop leak if safe to do so.

Environmental precautions

Avoid release to the environment
Notify authorities if product enters sewers or public waters

Methods and material for containment and cleaning up

Methods for cleaning : No additional information available

For containment : Absorb spilled material with sand or earth
Contain any spills with dikes or absorbents to prevent migration and entry into
sewers or streams
Stop leak without risks if possible

Prevention measures for secondary accidents

Prevention Measures for Secondary
Accidents : No additional information available

Other information : Dispose of materials or solid residues at an authorized site

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SECTION 7 Handling and storage

Handling

- Precautions for safe handling : Ensure good ventilation of the work station
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Ground/bond container and receiving equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Flammable vapours may accumulate in the container
Use explosion-proof equipment
Wear personal protective equipment
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Take all necessary technical measures to avoid or minimize the release of the product on the workplace
Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers
Provide local exhaust or general room ventilation
Floors, walls and other surfaces in the hazard area must be cleaned regularly
- Hygiene measures : Separate working clothes from town clothes. Launder separately
Do not eat, drink or smoke when using this product.
Always wash hands after handling the product
- Local and general ventilation : No additional information available
- Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use

Storage

- Storage conditions : Store in a well-ventilated place.
Keep cool.
Keep container tightly closed.
Store locked up.
- Technical measures : Ground/bond container and receiving equipment.
- Material used in packaging/containers : No additional information available
- Packaging materials : Store always product in container of same material as original container

SECTION 8 Exposure controls / Personal protection equipment

Occupational exposure limits

No additional information available

Biological limit values

No additional information available

Monitoring methods

No additional information available

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Appropriate engineering controls

Ensure good ventilation of the work station

Personal protective equipment

- Personal protective equipment : Wear recommended personal protective equipment
- Environmental exposure controls : Avoid release to the environment.
- Hand protection : Protective gloves
- Eye protection : Safety glasses
- Skin and body protection : Wear suitable protective clothing
- Respiratory protection : [In case of inadequate ventilation] wear respiratory protection.

Personal protective equipment symbol(s)



SECTION 9 Physical and chemical properties

- Physical state** : Liquid
- Appearance** : No data available
- Colour** : clear
- Odour** : No data available
- pH** : No data available
- Melting point** : Not applicable
- Freezing point** : No data available
- Boiling point** : 78 °C
- Flash point** : 4 °C
- Auto-ignition temperature** : No data available
- Decomposition temperature** : No data available
- Flammability** : Highly flammable liquid and vapour.
- Vapour pressure** : No data available
- Relative vapour density at 20°C** : No data available
- Density** : 5.87 lb/gal
- Solubility** : No data available
- Partition coefficient n-octanol/water (Log Pow)** : No data available
- Viscosity, kinematic** : < 10 mm²/s
- Lower explosion limit** : No data available
- Upper explosion limit** : No data available
- Radioactive** : No

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SECTION 10 Stability and reactivity

Chemical stability	: Stable under normal conditions
Reactivity	: Highly flammable liquid and vapour.
Possibility of hazardous reactions	: No dangerous reactions known under normal conditions of use
Conditions to avoid	: Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition
Incompatible materials	: No additional information available
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced
Other properties	: No additional information available

SECTION 11 Toxicological information

Acute toxicity

Acute toxicity (oral)	: No data available
Acute toxicity (dermal)	: Not classified.
Acute toxicity (inhalation)	: No data available

Skin corrosion/irritation

Skin corrosion/irritation	: Not classified.
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Serious eye damage/eye irritation

Serious eye damage/eye irritation	: No data available
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Respiratory or skin sensitisation

Respiratory or skin sensitisation	: No data available
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Germ cell mutagenicity

Germ cell mutagenicity	: May cause genetic defects.
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Carcinogenicity

Carcinogenicity	: May cause cancer.
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Reproductive toxicity

Reproductive toxicity	: No data available
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STOT - single exposure

STOT - single exposure	: Not classified.
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STOT - repeated exposure

STOT - repeated exposure	: No data available
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Aspiration hazard

Aspiration hazard	: May be fatal if swallowed and enters airways.
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Viscosity, kinematic	< 10 mm ² /s
Density	5.87 lb/gal

SECTION 12 Ecological information

Ecotoxicity

- Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
- Hazardous to the aquatic environment, short-term (acute) : Not classified.
- Hazardous to the aquatic environment, long-term (chronic) : Not classified.
- No additional information available

Persistence and degradability

Defender Ultra Shield	
Persistence and degradability	Rapidly degradable
Solvent solution (Trade secret)	
Persistence and degradability	Rapidly degradable
Silicone resin (Trade secret)	
Persistence and degradability	Rapidly degradable

Bioaccumulative potential

No additional information available

Mobility in soil

No additional information available

Other adverse effects

Classification procedure (Ozone) : No data available

SECTION 13 Disposal considerations

- Waste treatment methods** : Dispose of contents/container in accordance with licensed collector's sorting instructions.
- Contaminated container and packaging** : No additional information available
- Additional information** : Flammable vapours may accumulate in the container, Do not re-use empty containers.
- Product/Packaging disposal recommendations** : Disposal must be done according to official regulations

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Sewage disposal recommendations : Disposal must be done according to official regulations
Regional waste regulation : Disposal must be done according to official regulations

SECTION 14 Transport information

In accordance with JT/T 617 / IMDG / IATA

UN number

UN-No. (JT/T 617) : 1263
UN-No. (IMDG) : 1263
UN-No. (IATA) : 1263

Proper shipping name

Proper Shipping Name (JT/T 617) : PAINT
Proper Shipping Name (IMDG) : PAINT
Proper Shipping Name (IATA) : Paint

Transport hazard class(es)

Overland transport (JT/T 617)

Transport hazard class(es) (JT/T 617) : 3
Labels (JT/T 617) : 3.



Class (JT/T 617) : 3.

Transport by sea

Transport hazard class(es) (IMDG) : 3
Danger labels (IMDG) : 3.



Class (IMDG) : 3.

Air transport

Transport hazard class(es) (IATA) : 3
Danger labels (IATA) : 3.



Class (IATA) : 3.

Packing group

Packing Group (JT/T 617) : II - Applicable for packaging consisting of substances presenting medium danger.

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Packing group (IMDG) : II - substances presenting medium danger
Packing group (IATA) : II - Medium danger

Marine pollutant

Dangerous for the environment : No
Marine pollutant : No
Other information : No supplementary information available.

Special transport precautions

Overland transport (JT/T 617)

Classification code (JT/T 617) : F1.
Special provisions (JT/T 617) : 163, 367, 650.
Limited quantities (JT/T 617) : 5L.
Excepted quantities (JT/T 617) : E2.
Packing instructions (JT/T 617) : P001.
Special packing provisions (JT/T 617) : PP1.
Mixed packing provisions (JT/T 617) : MP19.
Portable tank and bulk container instructions (JT/T 617) : T4.
Portable tank and bulk container special provisions (JT/T 617) : TP1, TP8, TP28.
Tank codes (JT/T 617) : L1.5BN.
Vehicle for tank carriage (JT/T 617) : FL.
Transport category (JT/T 617) : 2.
Tunnel restriction code (JT/T 617) : D/E.
Special provisions for carriage - Operation (JT/T 617) : S2, S20.
Hazard identification number (JT/T 617) : 33.
Orange-coloured plate (JT/T 617) :



Transport by sea

Special provisions (IMDG) : 163, 367.
Limited quantities (IMDG) : 5 L.
Excepted quantities (IMDG) : E2.
Packing instructions (IMDG) : P001.
Special packing provisions (IMDG) : PP1.
IBC packing instructions (IMDG) : IBC02.
Tank instructions (IMDG) : T4.
Tank special provisions (IMDG) : TP1, TP8, TP28.
EmS-No. (Fire) : F-E.
EmS-No. (Spillage) : S-E.

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Stowage category (IMDG) : B.
Properties and observations (IMDG) : Miscibility with water depends upon the composition.

Air transport

PCA Excepted quantities (IATA) : E2.
PCA Limited quantities (IATA) : Y341.
PCA limited quantity max net quantity (IATA) : 1L.
PCA packing instructions (IATA) : 353.
PCA max net quantity (IATA) : 5L.
CAO packing instructions (IATA) : 364.
CAO max net quantity (IATA) : 60L.
Special provisions (IATA) : A3, A72, A192.
ERG code (IATA) : 3L.

SECTION 15 Regulatory information

No additional information available

SECTION 16 Other information

No additional information available

Safety Data Sheet (SDS), China

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